

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: November 24, 2003, 15:54:12 ; Search time 10684 Seconds
(without alignments)
11525.456 Million cell updates/sec

Title: US-10-058-945-1

Perfect score: 3010

Sequence: 1 attgcgggcttactgcgt.....ccagaaatccctcaaggcgg 3010

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2888711 seqs, 20454813386 residues

Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl:
1: gb_ba:
2: gb_htg:
3: gb_in:
4: gb_om:
5: gb_ov:
6: gb_pat:
7: gb_ph:
8: gb_pl:
9: gb_pr:
10: gb_ro:
11: gb_sts:
12: gb_sy:
13: gb_un:
14: gb_vi:
15: em_ba:
16: em_fun:
17: em_hum:
18: em_in:
19: em_mu:
20: em_om:
21: em_or:
22: em_ov:
23: em_pat:
24: em_ph:
25: em_pl:
26: em_ro:
27: em_sts:

Also searched

SEQ ID NO:1 as an OLIGOMER
and using the protein, SEQ ID NO:2,
in DNA databases.

But no better hit than
found here.

particularly USPAP 2002/0197605
Nakayama et al.

```

28: em_un:*
29: em_vi:*
30: em_htg_hum:*
31: em_htg_inv:*
32: em_htg_other:*
33: em_htg_mus:*
34: em_htg_pln:*
35: em_htg_rod:*
36: em_htg_mam:*
37: em_htg_vrt:*
38: em_sy:*
39: em_htgo_hum:*
40: em_htgo_mus:*
41: em_htgo_other:*

```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result	No.	Score	Query	Match	Length	DB	ID	Description
	1	3010	100.0	320550	1	AP005282		AP005282 Corynebac
	2	3010	100.0	349980	6	AX127152		AX127152 Sequence
	3	2326.6	77.3	2369	6	AX353377		AX353377 Sequence
	4	2326.6	77.3	2369	6	BD106978		BD106978 L-Glutami
	5	1578	52.4	1578	6	AX063735		AX063735 Sequence
	6	1578	52.4	1578	6	AX469840		AX469840 Sequence
	7	1546	51.4	1546	6	AX063737		AX063737 Sequence
	8	1455	48.3	1455	6	AX122970		AX122970 Sequence
	9	1455	48.3	1455	6	BD165087		BD165087 Novel pol
	10	1405.6	46.7	2817	6	AR216136		AR216136 Sequence
	11	1405.6	46.7	2817	6	AX137526		AX137526 Sequence
	12	1405.6	46.7	2817	6	AX236994		AX236994 Sequence
	13	1405.6	46.7	2817	6	AX322482		AX322482 Sequence
	14	1405.6	46.7	2817	6	BD013817		BD013817 Novel nuc
	15	1294	43.0	300330	1	AP005222		AP005222 Corynebac
	16	730	24.3	1971	6	AX707003		AX707003 Sequence
	17	615.4	20.4	1869	1	AF326510		AF326510 Corynebac
	18	615.4	20.4	1909	6	AR216137		AR216137 Sequence
	19	615.4	20.4	1909	6	AX137528		AX137528 Sequence
	20	615.4	20.4	1909	6	AX236996		AX236996 Sequence
	21	615.4	20.4	1909	6	AX322484		AX322484 Sequence
	22	615.4	20.4	1909	6	BD013818		BD013818 Novel nuc
	23	609	20.2	609	6	AX064867		AX064867 Sequence
	24	609	20.2	609	6	AX469850		AX469850 Sequence
	25	513	17.0	513	6	AX122971		AX122971 Sequence
	26	513	17.0	513	6	BD165088		BD165088 Novel pol
	27	482	16.0	1590	6	AX064869		AX064869 Sequence
	28	482	16.0	1590	6	AX066975		AX066975 Sequence
	29	482	16.0	1590	6	AX469852		AX469852 Sequence
	30	459	15.2	1503	6	AX122968		AX122968 Sequence
	31	459	15.2	1503	6	BD165085		BD165085 Novel pol
	32	327	10.9	327	6	AX122969		AX122969 Sequence
	33	327	10.9	327	6	BD165086		BD165086 Novel pol

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OM nucleic - nucleic search, using sw model

Run on: November 24, 2003, 14:41:25 ; Search time 750 Seconds
(without alignments)
10833.745 Million cell updates/sec

Title: US-10-058-945-1

Perfect score: 3010

Sequence: 1 attgcgggcttaactgcgt.....ccagaaatccctaaggcgg 3010

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_19Jun03:
1: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1980.DAT:
2: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1981.DAT:
3: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1982.DAT:
4: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1983.DAT:
5: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1984.DAT:
6: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1985.DAT:
7: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1986.DAT:
8: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1987.DAT:
9: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1988.DAT:
10: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1989.DAT:
11: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1990.DAT:
12: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1991.DAT:
13: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1992.DAT:
14: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1993.DAT:
15: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1994.DAT:
16: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1995.DAT:
17: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1996.DAT:
18: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1997.DAT:
19: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1998.DAT:
20: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1999.DAT:
21: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA2000.DAT:
22: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA2001A.DAT:
23: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA2001B.DAT:
24: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA2002.DAT:
25: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA2003.DAT:

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

%

Result No.	Score	Query				Description
		Match	Length	DB	ID	
1	3010	100.0	3010	24	AAL48965	C glutamicum otsA
2	3010	100.0	349980	22	AAH68533	C glutamicum codin
3	2326.6	77.3	2369	24	ABK15556	DNA encoding treha
4	1578	52.4	1578	22	AAF71761	Corynebacterium gl
5	1578	52.4	1578	24	ABS65356	DNA encoding C. gl
6	1546	51.4	1546	22	AAF71762	Corynebacterium gl
7	1455	48.3	1455	22	AAH67851	C glutamicum codin
8	1405.6	46.7	2817	22	AAF61246	C. glutamicum ATCC
9	1405.6	46.7	2817	22	AAH49349	C. glutamicum ATCC
10	1405.6	46.7	2817	24	ABA05864	Corynebacterium gl
11	730	24.3	1971	25	ABZ58585	Corynebacterium gl
12	615.4	20.4	1909	22	AAF61247	C. glutamicum ATCC
13	615.4	20.4	1909	22	AAH49350	C. glutamicum ATCC
14	615.4	20.4	1909	24	ABA05865	Corynebacterium gl
15	609	20.2	609	22	AAF72327	Corynebacterium gl
16	609	20.2	609	24	ABS65361	DNA encoding C. gl
17	513	17.0	513	22	AAH67852	C glutamicum codin
18	482	16.0	1590	22	AAF72328	Corynebacterium gl
19	482	16.0	1590	22	AAF68021	Corynebacterium gl
20	482	16.0	1590	24	ABS65362	DNA encoding C. gl
21	459	15.2	1503	22	AAH67849	C glutamicum codin
22	327	10.9	327	22	AAH67850	C glutamicum codin
23	302.4	10.0	1503	22	AAH52074	Mycobacterium tube
24	302.4	10.0	4403765	22	AAI99683	Mycobacterium tube
25	302.4	10.0	4411529	22	AAI99682	Mycobacterium tube
26	276	9.2	37716	23	AAS59553	Propionibacterium
27	230	7.6	891	22	AAF72322	Corynebacterium gl
28	230	7.6	891	24	ABS65357	DNA encoding C. gl
29	130	4.3	768	22	AAH67853	C glutamicum codin
30	118.4	3.9	2430	24	ABS51410	cDNA encoding larv
31	118.4	3.9	2903	23	ABL05149	Drosophila melanog
c	32	118.4	3.9	6435	23	ABL05148
	33	112.6	3.7	1500	21	AAZ45000
	34	110	3.7	534720	19	AAV30458
	35	110	3.7	536165	19	AAV30459
c	36	108.6	3.6	534720	19	AAV30458
c	37	108.6	3.6	536165	19	AAV30459
	38	104.2	3.5	303	24	ABN26396
	39	98.8	3.3	1910	19	AAV02740
	40	98.8	3.3	3223	19	AAV02739
	41	94.8	3.1	2695	21	AAA39756
	42	94.6	3.1	1534	18	AAV00136
	43	94.6	3.1	1534	18	AAV00084
	44	94.4	3.1	831	20	Trehalose-6-phosph
	45	92.8	3.1	2829	24	Arabidopsis thalia

ALIGNMENTS

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OM nucleic - nucleic search, using sw model

Run on: November 24, 2003, 22:24:06 ; Search time 978 Seconds
(without alignments)
10067.526 Million cell updates/sec

Title: US-10-058-945-1

Perfect score: 3010

Sequence: 1 attgcgggcttactgcgt.....ccagaaatccctcaaggcg 3010

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2172232 seqs, 1635554964 residues

Total number of hits satisfying chosen parameters: 4344464

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published_Applications_NA:*

1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*

2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*

3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*

4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*

5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*

6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*

7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*

8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*

9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*

10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*

11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*

12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*

13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*

14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*

15: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*

16: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*

17: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

%

Result No.	Score	Query Match	Length	DB ID	Description
------------	-------	-------------	--------	-------	-------------

1	3010	100.0	3010	13	US-10-058-945-1	Sequence 1, Appli	
2	3010	100.0	3309400	10	US-09-738-626-1	Sequence 1, Appli	
3	2326.6	77.3	2369	10	US-09-895-382-29	Sequence 29, Appli	
4	1455	48.3	1455	10	US-09-738-626-2886	Sequence 2886, Ap	
5	1405.6	46.7	2817	10	US-09-951-536-1	Sequence 1, Appli	
6	1405.6	46.7	2817	10	US-09-963-521-1	Sequence 1, Appli	
7	1405.6	46.7	2817	10	US-09-834-721-1	Sequence 1, Appli	
8	1405.6	46.7	2817	10	US-09-783-388-1	Sequence 1, Appli	
9	1405.6	46.7	2817	11	US-09-951-535-1	Sequence 1, Appli	
10	730	24.3	1971	14	US-10-212-219-1	Sequence 1, Appli	
11	615.4	20.4	1909	10	US-09-951-536-3	Sequence 3, Appli	
12	615.4	20.4	1909	10	US-09-963-521-3	Sequence 3, Appli	
13	615.4	20.4	1909	10	US-09-834-721-3	Sequence 3, Appli	
14	615.4	20.4	1909	10	US-09-783-388-3	Sequence 3, Appli	
15	615.4	20.4	1909	11	US-09-951-535-3	Sequence 3, Appli	
16	513	17.0	513	10	US-09-738-626-2887	Sequence 2887, Ap	
17	459	15.2	1503	10	US-09-738-626-2884	Sequence 2884, Ap	
18	327	10.9	327	10	US-09-738-626-2885	Sequence 2885, Ap	
19	302.4	10.0	1503	10	US-09-712-363-128	Sequence 128, App	
20	130	4.3	768	10	US-09-738-626-2888	Sequence 2888, Ap	
21	110	3.7	536165	11	US-09-939-964-1	Sequence 1, Appli	
c	22	108.6	3.6	536165	11	US-09-939-964-1	Sequence 1, Appli
	23	92.8	3.1	2829	10	US-09-938-842A-2487	Sequence 2487, Ap
	24	89.4	3.0	261	9	US-09-867-550-445	Sequence 445, App
	25	82	2.7	2598	10	US-09-938-842A-1646	Sequence 1646, Ap
	26	70.2	2.3	2589	10	US-09-938-842A-1345	Sequence 1345, Ap
	27	68.4	2.3	1389	14	US-10-156-761-3920	Sequence 3920, Ap
	28	68.4	2.3	9025608	14	US-10-156-761-1	Sequence 1, Appli
	29	66.8	2.2	654	15	US-10-307-723-36	Sequence 36, Appli
	30	62.8	2.1	498	12	US-10-259-165-417	Sequence 417, App
	31	62.8	2.1	501	12	US-10-259-165-81	Sequence 81, Appli
	32	62.8	2.1	3414	12	US-10-259-165-329	Sequence 329, App
c	33	54.2	1.8	791	9	US-09-770-445-847	Sequence 847, App
	34	50.4	1.7	2621	8	US-08-779-460B-1	Sequence 1, Appli
	35	44.6	1.5	1098	14	US-10-156-761-2932	Sequence 2932, Ap
c	36	44.6	1.5	9025608	14	US-10-156-761-1	Sequence 1, Appli
	37	44.4	1.5	651	14	US-10-156-761-2671	Sequence 2671, Ap
c	38	40.8	1.4	488	11	US-09-770-961-736	Sequence 736, App
	39	40.2	1.3	256	10	US-09-878-574-9432	Sequence 9432, Ap
	40	39.8	1.3	984	14	US-10-128-714-7296	Sequence 7296, Ap
	41	39.8	1.3	1028	14	US-10-128-714-6296	Sequence 6296, Ap
	42	39.8	1.3	2882	14	US-10-128-714-296	Sequence 296, App
	43	39.8	1.3	3028	14	US-10-128-714-5296	Sequence 5296, Ap
c	44	39.4	1.3	7758	12	US-10-311-455-1076	Sequence 1076, Ap
	45	39.2	1.3	4203	10	US-09-880-107-3422	Sequence 3422, Ap

ALIGNMENTS

RESULT 1
 US-10-058-945-1
 ; Sequence 1, Application US/10058945
 ; Publication No. US20020192674A1
 ; GENERAL INFORMATION:
 ; APPLICANT: HERMANN, Thomas
 ; APPLICANT: WOLF, Andreas

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OM nucleic - nucleic search, using sw model

Run on: November 24, 2003, 18:28:16 ; Search time 5588 Seconds
(without alignments)
13091.710 Million cell updates/sec

Title: US-10-058-945-1

Perfect score: 3010

Sequence: 1 attgcgggcttactgcgt.....ccagaaatccctaaggcgg 3010

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 22781392 seqs, 12152238056 residues

Total number of hits satisfying chosen parameters: 45562784

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : EST:*

1: em_estba:*

2: em_esthum:*

3: em_estin:*

4: em_estmu:*

5: em_estov:*

6: em_estpl:*

7: em_estro:*

8: em_htc:*

9: gb_est1:*

10: gb_est2:*

11: gb_htc:*

12: gb_est3:*

13: gb_est4:*

14: gb_est5:*

15: em_estfun:*

16: em_estom:*

17: em_gss_hum:*

18: em_gss_inv:*

19: em_gss_pln:*

20: em_gss_vrt:*

21: em_gss_fun:*

22: em_gss_mam:*

23: em_gss_mus:*

24: em_gss_pro:*

25: em_gss_rod:*

26: em_gss_phg:*

27: em_gss_vrl:*

28: gb_gss1:
29: gb_gss2:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

%

Result		Query				Description
	No.	Score	Match	Length	DB	ID
	1	138.6	4.6	645	12	BM869320
c	2	122	4.1	549	28	AQ399488
	3	111.8	3.7	583	9	AI109201
	4	109.6	3.6	404	13	BU644825
	5	100.4	3.3	441	9	AA783493
c	6	98.4	3.3	1024	28	AF075787
	7	92.4	3.1	601	12	BI941513
	8	91.2	3.0	436	10	BF050405
	9	90.2	3.0	556	12	BM869415
	10	88.2	2.9	565	12	BI941469
	11	87.4	2.9	509	12	BM870625
	12	87.4	2.9	604	12	BM871676
	13	86.2	2.9	685	13	BQ514325
c	14	86	2.9	463	12	BJ093065
	15	86	2.9	671	12	BJ332362
c	16	84.6	2.8	606	12	BJ094042
c	17	84.6	2.8	608	12	BJ094122
	18	84.6	2.8	882	29	CNS07AEC
	19	83.4	2.8	518	6	AU195980
	20	83.4	2.8	552	6	AU194261
	21	83.2	2.8	507	12	BM361364
	22	83	2.8	582	12	BJ328707
	23	82.8	2.8	531	10	BG278090
	24	82.2	2.7	598	29	CNS07903
	25	81.8	2.7	1040	29	CNS06D5J
	26	81.6	2.7	677	14	CB629538
	27	81.6	2.7	813	14	CB629539
	28	80.8	2.7	660	13	BU873535
c	29	79.6	2.6	676	28	BZ052416
	30	78.8	2.6	612	12	BJ331641
	31	78.4	2.6	540	13	BQ506197
	32	77	2.6	615	12	BJ333781
	33	76.4	2.5	588	12	BJ304058
	34	76.2	2.5	735	14	CD458300
	35	76	2.5	613	12	BJ329654
c	36	75.8	2.5	739	14	CA932062
	37	75.6	2.5	616	9	AI387759
	38	75.4	2.5	963	29	CNS06G9B
	39	74.6	2.5	620	12	BJ339231
	40	74	2.5	597	12	BJ333289
	41	73.8	2.5	482	6	AU194918
	42	73.8	2.5	544	6	AU194764
	43	73.2	2.4	852	29	CNS06ULN
	44	73	2.4	559	14	CD056225
	45	73	2.4	573	12	BJ323574